

09/970088 05/05/2004

L9 ANSWER 1 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2003:38104 USPATFULL
TITLE: VEGF fusion proteins
INVENTOR(S): Kovesdi, Imre, Rockville, MD, UNITED STATES
PATENT ASSIGNEE(S): Kessler, Paul D., Frederick, MD, UNITED STATES
GenVec, Inc., Gaithersburg, MD, UNITED STATES, 20878
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003027751	A1	20030206
APPLICATION INFO.:	US 2001-832355	A1	20010410 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	LEYDIG VOIT & MAYER, LTD, TWO PRUDENTIAL PLAZA, SUITE 4900, 180 NORTH STETSON AVENUE, CHICAGO, IL, 60601-6780		
NUMBER OF CLAIMS:	46		
EXEMPLARY CLAIM:	1		
LINE COUNT:	7034		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides therapeutic fusion proteins which include a first peptide portion comprising a first non-heparin binding VEGF peptide portion and a second non-VEGF peptide portion covalently associated with the first peptide portion, which first and second peptide portions separately promote angiogenesis, bone growth, wound healing, or any combination thereof. Further provided are polynucleotides encoding such fusion proteins, vectors including such polynucleotides, methods of making such proteins, and methods of promoting angiogenesis, bone growth, and/or wound healing using such proteins, polynucleotides, and vectors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2003:24164 USPATFULL
TITLE: Compositions and methods for inducing gene expression
INVENTOR(S): Gregory, Richard J., Westford, MA, UNITED STATES
Vincent, Karen, Arlington, MA, UNITED STATES
PATENT ASSIGNEE(S): Genzyme Corporation, Cambridge, MA, UNITED STATES, 02139 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003018007	A1	20030123
APPLICATION INFO.:	US 2002-190394	A1	20020703 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-579897, filed on 26 May 2000, GRANTED, Pat. No. US 6432927 Continuation-in-part of Ser. No. US 1998-133612, filed on 13 Aug 1998, ABANDONED Continuation of Ser. No. WO 1998-US25753, filed on 4 Dec 1998, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-67546P	19971204 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	GENZYME CORPORATION, LEGAL DEPARTMENT, 15 PLEASANT ST CONNECTOR, FRAMINGHAM, MA, 01701-9322	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	

NUMBER OF DRAWINGS: 8 Drawing Page(s)

LINE COUNT: 2021

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides recombinant nucleic acid molecules encoding a chimeric transactivator protein including a DNA binding domain of a DNA binding protein and a protein domain capable of transcriptional activation. The present invention also provides recombinant viral and non-viral vectors that are able to infect and/or transfect and sustain expression of a biologically active chimeric transactivator proteins in mammalian cells. Also provided are host cell lines and non-human transgenic animals capable of expressing biologically active chimeric transactivator proteins. In another aspect, compositions and methods for treating or preventing ischemic damage associated with hypoxia-related disorders are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2002:273361 USPATFULL

TITLE: Use of lymphangiogenic agents to treat lymphatic disorders

INVENTOR(S): Gravereaux, Edwin C., Brookline, MA, UNITED STATES

Silver, Marcy, Bolton, MA, UNITED STATES

Yoon, Young-Sup, Watertown, MA, UNITED STATES

Isner, Jeffrey M., Weston, MA, UNITED STATES

Isner, Linda, Weston, MA, UNITED STATES LR

PATENT ASSIGNEE(S): St. Elizabeth's Medical Center of Boston, Inc. (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION:	US 2002151489	A1	20021017
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APPLICATION INFO.:	US 2001-970088	A1	20011002 (9)
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NUMBER	DATE
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PRIORITY INFORMATION:	US 2000-237171P	20001002 (60)
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DOCUMENT TYPE:	Utility
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FILE SEGMENT:	APPLICATION
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LEGAL REPRESENTATIVE:	David G. Conlin, Dike, Bronstein, Roberts & Cushman, Intellectual Property Practice Group, P. O. Box 9169, Boston, MA, 02209
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NUMBER OF CLAIMS:	41
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EXEMPLARY CLAIM:	1
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NUMBER OF DRAWINGS:	35 Drawing Page(s)
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LINE COUNT:	1803
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CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for promoting the growth of new lymph vessels (lymphangiogenesis). Generally, such methods include administering at least one vascular endothelial factor (VEGF) such as VEGF-2. In one embodiment, therapeutic methods for treating lymphedema and related disorders in a human patient are disclosed. The VEGF can be provided by any suitable means including direct injection of a nucleic acid encoding same or an active fragment thereof. Also provided are pharmaceutical products for promoting lymphangiogenesis as well as a test system for screening compounds capable of inducing new lymph vessel growth.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 7 USPATFULL on STN
 ACCESSION NUMBER: 2002:202067 USPATFULL
 TITLE: Compositions and methods for inducing gene expression
 INVENTOR(S): Gregory, Richard J., Westford, MA, United States
 Vincent, Karen, Arlington, MA, United States
 PATENT ASSIGNEE(S): Genzyme Corporation, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6432927	B1	20020813
APPLICATION INFO.:	US 2000-579897		20000526 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 133612		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-67546P	19971204 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Nguyen, Dave T.	
LEGAL REPRESENTATIVE:	Kanter, Madge R.	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 8 Drawing Page(s)	
LINE COUNT:	2175	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides recombinant nucleic acid molecules encoding a chimeric transactivator protein including a DNA binding domain of a DNA binding protein and a protein domain capable of transcriptional activation. The present invention also provides recombinant viral and non-viral vectors that are able to infect and/or transfect and sustain expression of a biologically active chimeric transactivator proteins in mammalian cells. Also provided are host cell lines and non-human transgenic animals capable of expressing biologically active chimeric transactivator proteins. In another aspect, compositions and methods for treating or preventing ischemic damage associated with hypoxia-related disorders are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 7 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 2002029087 PCTFULL ED 20020627 EW 200215
 TITLE (ENGLISH): USE OF LYMPHANGIOGENIC AGENTS TO TREAT LYMPHATIC DISORDERS
 TITLE (FRENCH): UTILISATION D'AGENTS LYMPHANGIOGENIQUES POUR LE TRAITEMENT DE TROUBLES LYMPHATIQUES
 INVENTOR(S): GRAVEREAUX, Edwin, C., 1212 Fifth Avenue, #13E, New York, NY 10029, US;
 MARCY, Silver, 438 Still River Road, Bolton, MA 01740, US;
 ISNER, Jeffrey, M., 34 Brenton Road, Weston, MA 02193, US;
 YOON, Young-sup, 275 Main Street, Apt. #605, Watertown, MA 02472, US
 PATENT ASSIGNEE(S): ST. ELIZABETH'S MEDICAL CENTER OF BOSTON, INC., 736 Cambridge Street, Boston, MA 02135, US [US, US]
 AGENT: BUCHANAN, Robert, L.S., Dike, Bronstein, Roberts & Cushman - IP Practice Group of Edwards & Angell, LLP, P.O. Box 9169, Boston, MA 02209\$, US
 LANGUAGE OF FILING: English

LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 2002029087	A2	20020411
W:	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW		
RW (ARIPO):	GH GM KE LS MW MZ SD SL SZ TZ UG ZW		
RW (EAPO):	AM AZ BY KG KZ MD RU TJ TM		
RW (EPO):	AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR		
RW (OAPI):	BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG		
APPLICATION INFO.:	WO 2001-US30904	A	20011002
PRIORITY INFO.:	US 2000-60/237,171		20001002

ABEN The present invention provides methods for promoting the growth of new lymph vessels (lymphangiogenesis). Generally, such methods include administering at least one vascular endothelial factor (VEGF) such as VEGF-2. In one embodiment, therapeutic methods for treating lymphedema and related disorders in a human patient are disclosed. The VEGF can be provided by any suitable means including direct injection of a nucleic acid encoding same or an active fragment thereof. Also provided are pharmaceutical products for promoting lymphangiogenesis as well as a test system for screening compounds capable of inducing new lymph vessel growth.

ABFR L'invention concerne des methodes permettant de favoriser la croissance de nouveaux vaisseaux lymphatiques (lymphangiogenese). D'une maniere generale, de telles methodes consistent a administrer au moins un facteur endothelial vasculaire (VEGF) tel que VEGF-2. Dans un mode de realisation, l'invention concerne des methodes therapeutiques permettant de traiter un lymphoedeme et des troubles associes chez un patient humain. Le VEGF peut etre administre par un moyen approprie quelconque, notamment une injection directe d'un acide nucleique codant celui-ci ou un fragment actif de celui-ci. L'invention concerne en outre des produits pharmaceutiques favorisant la lymphangiogenese, ainsi qu'un systeme d'essai permettant de balayer des composes capables d'induire une croissance de nouveaux vaisseaux lymphatiques.

L9 ANSWER 6 OF 7 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 1999028469 PCTFULL ED 20020515
 TITLE (ENGLISH): COMPOSITIONS AND METHODS FOR INDUCING GENE EXPRESSION
 TITLE (FRENCH): COMPOSITIONS ET PROCEDES INDUISANT L'EXPRESSION GENIQUE
 INVENTOR(S): GREGORY, Richard, J.;
 VINCENT, Karen
 PATENT ASSIGNEE(S): GENZYME CORPORATION;
 GREGORY, Richard, J.;
 VINCENT, Karen

LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

	NUMBER	KIND	DATE
DESIGNATED STATES	WO 9928469	A1	19990610
W:	AU CA IL JP MX NO NZ SG US US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE		

APPLICATION INFO.: WO 1998-US25753 A 19981204
 PRIORITY INFO.: US 1997-60/067,546 19971204
 US 1998-09/133,612 19980813

ABEN The present invention provides recombinant nucleic acid molecules encoding a chimeric transactivator protein including a DNA binding domain of a DNA binding protein and a protein domain capable of transcriptional activation. The present invention also provides recombinant viral and non-viral vectors that are able to infect and/or transfect and sustain expression of a biologically active chimeric transactivator proteins in mammalian cells. Also provided are host cell lines and non-human transgenic animals capable of expressing biologically active chimeric transactivator proteins. In another aspect, compositions and methods for treating or preventing ischemic damage associated with hypoxia-related disorders are provided.

ABFR L'invention concerne des molecules d'acide nucleique de recombinaison qui codent une proteine de transactivation chimere comportant un domaine de liaison d'ADN d'une proteine de liaison d'ADN et un domaine de proteine capable d'induire une activation transcriptionnelle. L'invention concerne egalement des vecteurs viraux et non viraux de recombinaison capables d'infecter et/ou de transfecter et d'assurer l'expression d'une proteine de transactivation chimere biologiquement active dans des cellules mammaliennes. L'invention concerne en outre des lignees cellulaires hotes et des animaux transgeniques non humains capables d'exprimer ladite proteine. L'invention concerne aussi des compositions et des procedes permettant de traiter ou de prevenir les lesions d'origine ischemique associees aux troubles lies a l'hypoxie.

L9 ANSWER 7 OF 7 MEDLINE on STN DUPLICATE 1
 ACCESSION NUMBER: 1999148331 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 10025464
 TITLE: Vascular endothelial growth factor is more important than basic fibroblastic growth factor during ischemic wound healing.
 AUTHOR: Corral C J; Siddiqui A; Wu L; Farrell C L; Lyons D; Mustoe T A
 CORPORATE SOURCE: Division of Plastic Surgery and Reconstructive Surgery, Northwestern University Medical School, Chicago, Ill, USA.
 CONTRACT NUMBER: GM-41303 (NIGMS)
 SOURCE: Archives of surgery (Chicago, Ill. : 1960), (1999 Feb) 134 (2) 200-5.
 Journal code: 9716528. ISSN: 0004-0010.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
 ENTRY MONTH: 199903
 ENTRY DATE: Entered STN: 19990326
 Last Updated on STN: 19990326
 Entered Medline: 19990318

AB OBJECTIVES: To test the influence of vascular endothelial growth factor (VEGF) on normal and ischemic wounds in a noncontractile dermal

ulcer standardized model in the **rabbit ear** and to **assay** the levels of both **VEGF** and basic fibroblastic growth factor messenger RNA levels in normal and ischemic wounds at different intervals during the healing process. **DESIGN AND INTERVENTIONS:** Dermal ulcers were created in the normal and ischemic ears of 20 anesthetized young female New Zealand white rabbits. Either VEGF 121, VEGF 165 (30 microg per wound), or buffered saline solution alone was applied to each wound and covered. Wounds were harvested at day 7 or 10 and evaluated histologically. Twenty-four similar rabbits were wounded in the same manner and their untreated wounds were harvested at 1, 3, 7, and 10 days after wounding. The wounds were analyzed with reverse transcriptase polymerase chain reaction. **MAIN OUTCOME MEASURES:** Histologic specimens were measured for amount of new epithelium and granulation tissue. Reverse transcriptase polymerase chain reaction was used to determine basic fibroblastic growth factor and VEGF messenger RNA expression. **RESULTS:** Both isoforms of VEGF improved granulation tissue formation in both normal and ischemic wounds with a magnitude similar to other vulnerary agents tested in the past. Vascular endothelial growth factor application had no effect on new epithelium formation. In contrast to basic fibroblastic growth factor, VEGF messenger RNA levels were induced 4 fold by ischemia alone and 6 fold by wounding in both ischemic and normal wounds. **CONCLUSION:** Vascular endothelial growth factor seems to be more important than basic fibroblastic growth factor during ischemic wound healing. Treatment of ischemic wounds with VEGF improves the deficit in wound healing produced by ischemia.

L18 ANSWER 1 OF 41 USPATFULL on STN
ACCESSION NUMBER: 2004:83200 USPATFULL
TITLE: Screening and therapy for lymphatic disorders involving
the FLT4 receptor tyrosine kinase (VEGFR-3)
INVENTOR(S): Ferrell, Robert E., Pittsburgh, PA, UNITED STATES
Alitalo, Kari, Helsinki, FINLAND
Finegold, David N., Pittsburgh, PA, UNITED STATES
Karkkainen, Marika, Helsinki, FINLAND

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004063656	A1	20040401
APPLICATION INFO.:	US 2003-661740	A1	20030912 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-375248, filed on 16 Aug 1999, PENDING Continuation-in-part of Ser. No. WO 1999-US6133, filed on 26 Mar 1999, PENDING		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MARSHALL, GERSTEIN & BORUN LLP, 6300 SEARS TOWER, 233 S. WACKER DRIVE, CHICAGO, IL, 60606		
NUMBER OF CLAIMS:	36		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	2972		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	The present invention provides materials and methods for screening for and treating hereditary lymphedema in human subjects.		

L23 ANSWER 1 OF 15 USPATFULL on STN
 ACCESSION NUMBER: 2003:306487 USPATFULL
 TITLE: Vascular endothelial growth factor-2
 INVENTOR(S): Coleman, Timothy, Gaithersburg, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003215921	A1	20031120
APPLICATION INFO.:	US 2001-921143	A1	20010803 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-223276P	20000804 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	55 Drawing Page(s)	
LINE COUNT:	6836	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are human VEGF-2 polypeptides, biologically active, diagnostically or therapeutically useful fragments, analogs, or derivatives thereof, and DNA(RNA) encoding such VEGF-2 polypeptides. Also provided are procedures for producing such polypeptides by recombinant techniques and antibodies and antagonists against such polypeptides. Such polypeptides and polynucleotides may be used therapeutically for stimulating wound healing and for vascular tissue repair. Also provided are methods of using the antibodies and antagonists to inhibit tumor angiogenesis and thus tumor growth, inflammation, diabetic retinopathy, rheumatoid arthritis, and psoriasis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 2 OF 15 USPATFULL on STN
 ACCESSION NUMBER: 2003:251885 USPATFULL
 TITLE: Vascular endothelial growth factor 2
 INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
 Albert, Vivian R., Rockville, MD, UNITED STATES
 Ruben, Steven M., Olney, MD, UNITED STATES
 Wager, Ruth, Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003176674	A1	20030918
APPLICATION INFO.:	US 2002-120377	A1	20020412 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-317600P	20010907 (60)
DOCUMENT TYPE:	US 2001-283391P	20010413 (60)
FILE SEGMENT:	Utility	
LEGAL REPRESENTATIVE:	APPLICATION	
NUMBER OF CLAIMS:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
EXEMPLARY CLAIM:	133	
NUMBER OF DRAWINGS:	54 Drawing Page(s)	
LINE COUNT:	12110	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are human **VEGF**-2 antibodies, antibody fragments, or variants thereof. Also provided are processes for producing such antibodies. The present invention relates to methods and compositions for preventing, treating or ameliorating a disease or disorder comprising **administering** to an animal, preferably a human, an effective amount of one or more **VEGF**-2 antibodies or fragments or variants thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 3 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2003:250489 USPATFULL
TITLE: Vascular endothelial growth factor 2
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Albert, Vivian R., Rockville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Wager, Ruth E., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175274	A1	20030918
APPLICATION INFO.:	US 2002-120414	A1	20020412 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-283385P	20010413 (60)
	US 2002-350366P	20020124 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	133	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	53 Drawing Page(s)	
LINE COUNT:	12105	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are human **VEGF**-2 antibodies, antibody fragments, or variants thereof. Also provided are processes for producing such antibodies. The present invention relates to methods and compositions for preventing, treating or ameliorating a disease or disorder comprising **administering** to an animal, preferably a human, an effective amount of one or more **VEGF**-2 antibodies or fragments or variants thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 4 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2003:244377 USPATFULL
TITLE: Vascular endothelial growth factor 2
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Albert, Vivian R., Rockville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Wager, Ruth E., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003170786	A1	20030911
APPLICATION INFO.:	US 2002-120398	A1	20020412 (10)

NUMBER	DATE

PRIORITY INFORMATION:	US 2001-283408P 20010413 (60)
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS:	60
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	48 Drawing Page(s)
LINE COUNT:	11075

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are human **VEGF-2** antibodies, antibody fragments, or variants thereof. Also provided are processes for producing such antibodies. The present invention relates to methods and compositions for preventing, treating or ameliorating a disease or disorder comprising **administering** to an animal, preferably a human, an effective amount of one or more **VEGF-2** antibodies or fragments or variants thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 5 OF 15 USPATFULL on STN
 ACCESSION NUMBER: 2003:38360 USPATFULL
 TITLE: Vascular endothelial growth factor 2
 INVENTOR(S): Hu, Jing-Shan, Mountain View, CA, UNITED STATES
 Cao, Liang, Bethesda, MD, UNITED STATES
 Rosen, Craig A., Laytonsville, MD, UNITED STATES

NUMBER	KIND	DATE

PATENT INFORMATION:	US 2003028007	A1 20030206
APPLICATION INFO.:	US 2002-84488	A1 20020228 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-623725, filed on 20 Nov 2000, PENDING A 371 of International Ser. No. WO 1999-US5021, filed on 10 Mar 1999, UNKNOWN	
	Continuation-in-part of Ser. No. US 1998-42105, filed on 13 Mar 1998, GRANTED, Pat. No. US 6040157	
	Continuation-in-part of Ser. No. US 1998-107997, filed on 30 Jun 1998, PENDING	

DOCUMENT TYPE: Utility
 FILE SEGMENT: APPLICATION
 LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,
ROCKVILLE, MD, 20850
 NUMBER OF CLAIMS: 26
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 47 Drawing Page(s)
 LINE COUNT: 6839

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are human VEGF-2 polypeptides, biologically active, diagnostically or therapeutically useful fragments, analogs, or derivatives thereof, and DNA(RNA) encoding such VEGF-2 polypeptides. Also provided are procedures for producing such polypeptides by recombinant techniques and antibodies and antagonists against such polypeptides. Such polypeptides and polynucleotides may be used therapeutically for stimulating wound healing and for vascular tissue repair. Also provided are methods of using the antibodies and antagonists to inhibit tumor angiogenesis and thus tumor growth, inflammation, diabetic retinopathy, rheumatoid arthritis, and psoriasis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 6 OF 15 USPATFULL on STN
 ACCESSION NUMBER: 2003:10662 USPATFULL
 TITLE: Vascular endothelial growth factor 2
 INVENTOR(S): Hu, Jing-Shan, Sunnyvale, CA, UNITED STATES
 Rosen, Craig A., Laytonsville, MD, UNITED STATES
 Cao, Liang, South Horizons, HONG KONG

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003008357	A1	20030109
APPLICATION INFO.:	US 2001-935726	A1	20010824 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-438538, filed on 12 Nov 1999, ABANDONED Division of Ser. No. US 1998-42105, filed on 13 Mar 1998, PATENTED Continuation-in-part of Ser. No. US 1997-999811, filed on 24 Dec 1997, PATENTED Continuation-in-part of Ser. No. US 1995-465968, filed on 6 Jun 1995, PENDING Continuation-in-part of Ser. No. US 1997-824996, filed on 27 Mar 1997, PATENTED Division of Ser. No. US 1994-207550, filed on 8 Mar 1994, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850		
NUMBER OF CLAIMS:	76		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	47 Drawing Page(s)		
LINE COUNT:	5225		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are human VEGF2 polypeptides, biologically active, diagnostically or therapeutically useful fragments, analogs, or derivatives thereof, and DNA (RNA) encoding such VEGF2 polypeptides. Also provided are procedures for producing such polypeptides by recombinant techniques and antibodies and antagonists against such polypeptides. Such polypeptides may be used therapeutically for stimulating wound healing and for vascular tissue repair. Also provided are methods of using the antibodies and antagonists to inhibit tumor angiogenesis and thus tumor growth, inflammation, diabetic retinopathy, rheumatoid arthritis, and psoriasis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 7 OF 15 USPATFULL on STN
 ACCESSION NUMBER: 2002:273361 USPATFULL
 TITLE: Use of lymphangiogenic agents to treat lymphatic disorders
 INVENTOR(S): Gravereaux, Edwin C., Brookline, MA, UNITED STATES
 Silver, Marcy, Bolton, MA, UNITED STATES
 Yoon, Young-Sup, Watertown, MA, UNITED STATES
 Isner, Jeffrey M., Weston, MA, UNITED STATES
 Isner, Linda, Weston, MA, UNITED STATES LR
 St. Elizabeth's Medical Center of Boston, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002151489	A1	20021017
APPLICATION INFO.:	US 2001-970088	A1	20011002 (9)

NUMBER	DATE

PRIORITY INFORMATION:	US 2000-237171P
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	David G. Conlin, Dike, Bronstein, Roberts & Cushman, Intellectual Property Practice Group, P. O. Box 9169, Boston, MA, 02209
NUMBER OF CLAIMS:	41
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	35 Drawing Page(s)
LINE COUNT:	1803

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for promoting the growth of new lymph vessels (lymphangiogenesis). Generally, such methods include **administering** at least one vascular endothelial factor (**VEGF**) such as **VEGF-2**. In one embodiment, therapeutic methods for treating **lymphedema** and related disorders in a human patient are disclosed. The **VEGF** can be provided by any suitable means including direct injection of a nucleic acid encoding same or an active fragment thereof. Also provided are pharmaceutical products for promoting lymphangiogenesis as well as a test system for screening compounds capable of inducing new lymph vessel growth.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 8 OF 15 USPATFULL on STN
 ACCESSION NUMBER: 2000:34403 USPATFULL
 TITLE: Vascular endothelial growth factor 2
 INVENTOR(S): Hu, Jing-Shan, Sunnyvale, CA, United States
 Rosen, Craig A., Laytonsville, MD, United States
 Cao, Liang, South Horizons, Hong Kong
 PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, United States (U.S. corporation)

NUMBER	KIND	DATE

PATENT INFORMATION:	US 6040157	20000321
APPLICATION INFO.:	US 1998-42105	19980313 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-999811, filed on 24 Dec 1997, now patented, Pat. No. US 5932540 which is a continuation-in-part of Ser. No. US 1997-824996, filed on 27 Mar 1997 And a continuation-in-part of Ser. No. US 1995-465968, filed on 6 Jun 1995 which is a continuation-in-part of Ser. No. US 1994-207550, filed on 8 Mar 1994	
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Ulm, John	
ASSISTANT EXAMINER:	Saoud, Christine	
LEGAL REPRESENTATIVE:	Human Genome Sciences Inc.	
NUMBER OF CLAIMS:	75	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	48 Drawing Figure(s); 47 Drawing Page(s)	
LINE COUNT:	5292	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are human VEGF2 polypeptides, biologically active, diagnostically or therapeutically useful fragments, analogs, or derivatives thereof, and DNA (RNA) encoding such VEGF2 polypeptides. Also provided are

procedures for producing such polypeptides by recombinant techniques and antibodies and antagonists against such polypeptides. Such polypeptides may be used therapeutically for stimulating wound healing and for vascular tissue repair. Also provided are methods of using the antibodies and antagonists to inhibit tumor angiogenesis and thus tumor growth, inflammation, diabetic retinopathy, rheumatoid arthritis, and psoriasis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 9 OF 15 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 2003097660 PCTFULL ED 20031202 EW 200348
 TITLE (ENGLISH): VASCULAR ENDOTHELIAL GROWTH FACTOR 2
 TITLE (FRENCH): FACTEUR DE CROISSANCE ENDOTHELIAL VASCULAIRE 2
 INVENTOR(S): ROSEN, Graig, A., 22400 Rolling Hill ROad,
 Laytonsville, MD 20882, US [US, US];
 ALBERT, Vivian, R., 13710 Mills Farm Road, Rockville,
 MD 20850, US [US, US];
 RUBEN, Steven, M., 19420 Pyrite Lane, Brookeville, MD
 20833, US [US, US];
 WAGER, Ruth, E., 7309 Gold Ring Terrace, Rockville, MD
 20855, US [US, US]
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC., 9410 Key West Avenue,
 Rockville, MA 20850, US [US, US], for all designates
 States except US;
 ROSEN, Graig, A., 22400 Rolling Hill ROad,
 Laytonsville, MD 20882, US [US, US], for US only;
 ALBERT, Vivian, R., 13710 Mills Farm Road, Rockville,
 MD 20850, US [US, US], for US only;
 RUBEN, Steven, M., 19420 Pyrite Lane, Brookeville, MD
 20833, US [US, US], for US only;
 WAGER, Ruth, E., 7309 Gold Ring Terrace, Rockville, MD
 20855, US [US, US], for US only
 WALES, Michele, M.S., Human Genome Sciences, Inc., 9410
 Key West Avenue, Rockville, MD 20850\$, US
 AGENT:
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE

WO 2003097660	A1	20031127

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
 GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (ARIPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC
 NL PT SE SK TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2002-US26246

A 20020819

PRIORITY INFO.: US 2002-PCT/US02/11474

20020412

ABEN Disclosed are human **VEGF**-2 antibodies, antibody fragments, or variants thereof. Also provided are processes for producing such antibodies. The present invention relates to methods and compositions for preventing, treating or ameliorating a disease or disorder comprising **administering** to an animal, preferably a human, an

effective amount of one or more **VEGF-2** antibodies or fragments or variants thereof.

ABFR L'invention concerne des anticorps **VEGF-2**, des fragments d'anticorps ou des variants correspondants. Elle se rapporte également à des procédés de production de ces anticorps. La présente invention concerne en outre des méthodes et des compositions destinées à prévenir, traiter ou atténuer une maladie ou un trouble, et consistant à administrer à un animal, de préférence un être humain, une **dose** efficace d'un ou plusieurs anticorps **VEGF-2** ou des fragments ou variants correspondants.

L23 ANSWER 10 OF 15 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 2002083850 PCTFULL ED 20021107 EW 200243
 TITLE (ENGLISH): VASCULAR ENDOTHELIAL GROWTH FACTOR 2
 TITLE (FRENCH): FACTEUR 2 DE CROISSANCE ENDOTHELIALE VASCULAIRE
 INVENTOR(S): ROSEN, Craig, A., 22400 Rolling Hill Lane, Laytonsville, MD 20882, US [US, US]; ALBERT, Vivian, R., 13710 Mills Farm Road, Rockville, MD 20850, US [US, US]; RUBEN, Steven, M., 18528 Heritage Hills Drive, Olney, MD 20832, US [US, US]; WAGER, Ruth, E., 7309 Gold Ring Terrace, Rockville, MD 20855, US [US, US]
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC., 9410 Key West Avenue, Rockville, MD 20850, US [US, US], for all designates States except US; ROSEN, Craig, A., 22400 Rolling Hill Lane, Laytonsville, MD 20882, US [US, US], for US only; ALBERT, Vivian, R., 13710 Mills Farm Road, Rockville, MD 20850, US [US, US], for US only; RUBEN, Steven, M., 18528 Heritage Hills Drive, Olney, MD 20832, US [US, US], for US only; WAGER, Ruth, E., 7309 Gold Ring Terrace, Rockville, MD 20855, US [US, US], for US only
 WALES, Michele, M.\$, Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, MD 20850\$, US
 AGENT:
 LANGUAGE OF FILING:
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: English
 PATENT INFORMATION:
 DESIGNATED STATES
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 RW (ARIPO): RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 APPLICATION INFO.: WO 2002-US11405 A 20020412
 PRIORITY INFO.: US 2001-60/283,408 20010413
 ABEN Disclosed are human **VEGF-2** antibodies, antibody fragments, or variants thereof. Also provided are processes for producing such antibodies. The present invention relates to methods and compositions for preventing, treating or ameliorating a disease or disorder

comprising **administering** to an animal, preferably a human, an effective amount of one or more **VEGF-2** antibodies or fragments or variants thereof.

ABFR La presente invention concerne des anticorps anti VEGF-2 humain, des fragments d'anticorps ou des variants de ceux-ci. La presente invention concerne également des procedes pour produire de tels anticorps. En outre, cette invention concerne des methodes et des compositions pour prevenir, traiter ou ameliorer une maladie ou un trouble, lesdites methodes consistant a administrer a un animal, de preference a un etre humain, une quantite efficace d'un ou de plusieurs anticorps anti VEGF-2 ou des fragments ou des variants de ceux-ci.

L23 ANSWER 11 OF 15 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 2002083849 PCTFULL ED 20021107 EW 200243
 TITLE (ENGLISH): VASCULAR ENDOTHELIAL GROWTH FACTOR 2
 TITLE (FRENCH): FACTEUR DE CROISSANCE ENDOTHELIAL VASCULAIRE 2
 INVENTOR(S): ROSEN, Craig, A., 22400 Rolling Hill Lane,
 Laytonsville, MD 20882, US [US, US];
 ALBERT, Vivian, R., 13710 Mills Farm Road, Rockville,
 MD 20850, US [US, US];
 RUBEN, Steven, M., 18528 Heritage Hills Drive, Olney,
 MD 20832, US [US, US];
 WAGER, Ruth, E., 7309 Gold Ring Terrace, Rockville, MD
 20855, US [US, US]
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC., 9410 Key West Avenue,
 Rockville, MD 20850, US [US, US], for all designates
 States except US;
 ROSEN, Craig, A., 22400 Rolling Hill Lane,
 Laytonsville, MD 20882, US [US, US], for US only;
 ALBERT, Vivian, R., 13710 Mills Farm Road, Rockville,
 MD 20850, US [US, US], for US only;
 RUBEN, Steven, M., 18528 Heritage Hills Drive, Olney,
 MD 20832, US [US, US], for US only;
 WAGER, Ruth, E., 7309 Gold Ring Terrace, Rockville, MD
 20855, US [US, US], for US only
 WALES, Michele, M.\$, Human Genome Sciences, Inc., 9410
 Key West Avenue, Rockville, MD 20850\$, US
 AGENT:
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002083849	A2	20021024

DESIGNATED STATES

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
 GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (ARIPO): RW (EAPO): RW (EPO):
 AM AZ BY KG KZ MD RU TJ TM
 AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR

RW (OAPI):
 APPLICATION INFO.: WO 2002-US11404 A 20020412

PRIORITY INFO.: US 2001-60/283,391 20010413
 US 2001-60/317,600 20010907

ABEN Disclosed are human **VEGF-2** antibodies, antibody fragments, or variants thereof. Also provided are processes for producing such

antibodies. The present invention relates to methods and compositions for preventing, treating or ameliorating a disease or disorder comprising **administering** to an animal, preferably a human, an effective amount of one or more **VEGF**-2 antibodies or fragments or variants thereof.

ABFR L'invention concerne des anticorps humains VEGF-2, des fragments d'anticorps ou des variants de ceux-ci. L'invention concerne également des procédés de préparation de tels anticorps, ainsi que des procédés et des compositions permettant de prévenir, de traiter ou de soulager une maladie ou un trouble, lesquels consistent à administrer à un animal, de préférence à un être humain, une quantité efficace d'un ou de plusieurs anticorps VEGF-2 ou de fragments ou de variants de ceux-ci.

L23 ANSWER 12 OF 15 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 2002083704 PCTFULL ED 20021107 EW 200243
 TITLE (ENGLISH): VASCULAR ENDOTHELIAL GROWTH FACTOR 2
 TITLE (FRENCH): FACTEUR DE CROISSANCE 2, ENDOTHELIAL, VASCULAIRE
 INVENTOR(S): ROSEN, Craig, A., 22400 Rolling Hill Lane, Laytonsville, MD 20882, US [US, US]; ALBERT, Vivian, R., 13710 Mills Farm Road, Rockville, MD 20850, US [US, US]; RUBEN, Steven, M., 18528 Heritage Hills Drive, Olney, MD 20832, US [US, US]; WAGER, Ruth, E., 7309 Gold Ring Terrace, Rockville, MD 20855, US [US, US]
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC., 9410 Key West Avenue, Rockville, MD 20850, US [US, US], for all designates States except US; ROSEN, Craig, A., 22400 Rolling Hill Lane, Laytonsville, MD 20882, US [US, US], for US only; ALBERT, Vivian, R., 13710 Mills Farm Road, Rockville, MD 20850, US [US, US], for US only; RUBEN, Steven, M., 18528 Heritage Hills Drive, Olney, MD 20832, US [US, US], for US only; WAGER, Ruth, E., 7309 Gold Ring Terrace, Rockville, MD 20855, US [US, US], for US only
 WALES, Michele, M.\$, Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, MD 20850\$, US
 AGENT:
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE

WO 2002083704	A1	20021024

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD
 MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
 SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
 GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (ARIPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR

RW (OAPI):

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2002-US11474 A 20020412

PRIORITY INFO.:

US 2001-60/283,385 20010413

US 2002-60/350,366 20020124

ABEN Disclosed are human **VEGF**-2 antibodies, antibody fragments, or

variants thereof. Also provided are processes for producing such antibodies. The present invention relates to methods and compositions for preventing, treating or ameliorating a disease or disorder comprising **administering** to an animal, preferably a human, an effective amount of one or more **VEGF**-2 antibodies or fragments or variants thereof.

ABFR L'invention concerne des anticorps VEGF-2 humains, des fragments d'anticorps ou des variants correspondants, ainsi que des processus de production de ces anticorps. La présente invention a également trait à des méthodes et à des compositions servant à prévenir, traiter ou améliorer une maladie ou un trouble. Lesdites méthodes consistent à administrer à un animal, de préférence, à un être humain, une quantité efficace d'au moins un anticorps VEGF-2 ou des fragments ou des variants correspondants.

L23 ANSWER 13 OF 15 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 2002029087 PCTFULL ED 20020627 EW 200215
 TITLE (ENGLISH): USE OF LYMPHANGIOGENIC AGENTS TO TREAT LYMPHATIC DISORDERS
 TITLE (FRENCH): UTILISATION D'AGENTS LYMPHANGIOGENIQUES POUR LE TRAITEMENT DE TROUBLES LYMPHATIQUES
 INVENTOR(S): GRAVEREAUX, Edwin, C., 1212 Fifth Avenue, #13E, New York, NY 10029, US;
 MARCY, Silver, 438 Still River Road, Bolton, MA 01740, US;
 ISNER, Jeffrey, M., 34 Brenton Road, Weston, MA 02193, US;
 YOON, Young-sup, 275 Main Street, Apt. #605, Watertown, MA 02472, US
 PATENT ASSIGNEE(S): ST. ELIZABETH'S MEDICAL CENTER OF BOSTON, INC., 736 Cambridge Street, Boston, MA 02135, US [US, US]
 AGENT: BUCHANAN, Robert, L.S., Dike, Bronstein, Roberts & Cushman - IP Practice Group of Edwards & Angell, LLP, P.O. Box 9169, Boston, MA 02209\$, US
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:
 DESIGNATED STATES
 W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 APPLICATION INFO.: WO 2001-US30904 A 20011002
 PRIORITY INFO.: US 2000-60/237,171 20001002

ABEN The present invention provides methods for promoting the growth of new lymph vessels (lymphangiogenesis). Generally, such methods include **administering** at least one vascular endothelial factor (**VEGF**) such as **VEGF**-2. In one embodiment, therapeutic methods for treating **lymphedema** and related disorders in a human patient are disclosed. The **VEGF** can be provided by any

suitable means including direct injection of a nucleic acid encoding same or an active fragment thereof. Also provided are pharmaceutical products for promoting lymphangiogenesis as well as a test system for screening compounds capable of inducing new lymph vessel growth.

ABFR L'invention concerne des methodes permettant de favoriser la croissance de nouveaux vaisseaux lymphatiques (lymphangiogenese). D'une maniere generale, de telles methodes consistent a administrer au moins un facteur endothelial vasculaire (VEGF) tel que VEGF-2. Dans un mode de realisation, l'invention concerne des methodes therapeutiques permettant de traiter un lymphoedeme et des troubles associes chez un patient humain. Le VEGF peut etre administre par un moyen approprie quelconque, notamment une injection directe d'un acide nucleique codant celui-ci ou un fragment actif de celui-ci. L'invention concerne en outre des produits pharmaceutiques favorisant la lymphangiogenese, ainsi qu'un systeme d'essai permettant de balayer des composees capables d'induire une croissance de nouveaux vaisseaux lymphatiques.

L23 ANSWER 14 OF 15 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 2002011769 PCTFULL ED 20020711 EW 200207
 TITLE (ENGLISH): VASCULAR ENDOTHELIAL GROWTH FACTOR 2
 TITLE (FRENCH): FACTEUR 2 DE CROISSANCE ENDOTHELIALE (VEGF-2)
 INVENTOR(S): COLEMAN, Timothy, A., 7512 Boxberry Terrace,
 Gaithersburg, MD 20879, US [US, US]
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC., 9410 Key West Avenue,
 Rockville, MD 20850, US [US, US], for all designates
 States except US;
 COLEMAN, Timothy, A., 7512 Boxberry Terrace,
 Gaithersburg, MD 20879, US [US, US], for US only
 WALES, Michele, M.\$, 9410 Key West Avenue, Rockville,
 MD 20850\$, US
 AGENT:
 LANGUAGE OF FILING: English
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 2002011769	A1	20020214

DESIGNATED STATES

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
 CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL
 IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG
 MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ
 TM TR TT TZ UA UG US UZ VN YU ZA ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
 TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2001-US24658 A 20010803
 PRIORITY INFO.: US 2000-60/223,276 20000804

ABEN Disclosed are human VEGF-2 polypeptides, biologically active, diagnostically or therapeutically useful fragments, analogs, or derivatives thereof, and DNA (RNA) encoding such VEGF-2 polypeptides. Also provided are procedures for producing such polypeptides by recombinant techniques and antibodies and antagonists against such polypeptides. Such polypeptides and polynucleotides may be used

therapeutically for stimulating wound healing and for vascular tissue repair.

Also provided are methods of using the antibodies and antagonists to inhibit tumor angiogenesis and thus tumor growth, inflammation, diabetic retinopathy, rheumatoid arthritis, and psoriasis.

ABFR Cette invention a trait a des polypeptides du VEGF-2, a des fragments, des analogues ou des derives de ceux-ci, biologiquement actifs et des plus utiles en matiere de diagnostic ou de therapie, ainsi qu'a de l'ADN (ARN) codant ces polypeptides du VEGF-2. L'invention porte egalement sur des procedes de production de ces polypeptides, utilisant des techniques de recombinaison, ainsi que sur des anticorps et des antagonistes de ceux-ci. Ces polypeptides et polynucleotides peuvent avoir une utilisation therapeutique, en l'occurrence pour stimuler la cicatrisation d'une blessure ainsi que pour reparer un tissu vasculaire.

Cette invention concerne, de surcroit, l'utilisation qui est faite des anticorps et des antagonistes susmentionnes pour inhiber une angiogenese tumorale et, partant, une croissance tumorale, ainsi que pour traiter l'inflammation, la retinopathie diabetique, la polyarthrite rhumatoide et le psoriasis.

L23 ANSWER 15 OF 15 PCTFULL COPYRIGHT 2004 Univentio on STN
 ACCESSION NUMBER: 1999046364 PCTFULL ED 20020515
 TITLE (ENGLISH): VASCULAR ENDOTHELIAL GROWTH FACTOR 2
 TITLE (FRENCH): FACTEUR DE CROISSANCE ENDOTHELIAL VASCULAIRE 2
 INVENTOR(S): ROSEN, Craig, A.;
 CAO, Liang;
 HU, Jing-Shan
 PATENT ASSIGNEE(S): HUMAN GENOME SCIENCES, INC.;
 ROSEN, Craig, A.;
 CAO, Liang;
 HU, Jing-Shan
 LANGUAGE OF PUBL.: English
 DOCUMENT TYPE: Patent
 PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9946364	A1	19990916

DESIGNATED STATES

W:

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
 ES FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
 LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO
 RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
 GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ
 TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT
 SE BF BJ CF CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 1999-US5021	A	19990310
US 1998-09/042,105		19980313
US 1998-09/107,997		19980630

PRIORITY INFO.:

ABEN Disclosed are human VEGF-2 polypeptides, biologically active, diagnostically or therapeutically useful fragments, analogs, or derivatives thereof, and DNA(RNA) encoding such VEGF-2 polypeptides.

Also provided are procedures for producing such polypeptides by recombinant techniques and

antibodies and antagonists against such polypeptides. Such polypeptides and polynucleotides may be used therapeutically for stimulating wound healing and for vascular tissue repair. Also provided are methods of using the antibodies and antagonists to inhibit tumor angiogenesis and thus tumor growth, inflammation, diabetic retinopathy, rheumatoid arthritis, and psoriasis.

ABFR L'invention concerne des polypeptides humains du facteur de croissance endothelial vasculaire

2, des fragments, analogues ou derives de ces polypeptides, actifs sur le plan biologique et utiles sur les plans diagnostique et therapeutique, ainsi que l'ADN (ARN) codant ces polypeptides.

L'invention concerne egalement des procedes de production de tels polypeptides a l'aide de techniques de recombinaison, de meme que des anticorps et antagonistes diriges contre de tels polypeptides. On peut utiliser ces polypeptides et polynucleotides de maniere therapeutique pour stimuler la cicatrisation de plaies et dans la reparation de tissus vasculaires. L'invention concerne encore des procedes d'utilisation de ces anticorps et antagonistes, destines a inhiber l'angiogenese de tumeurs et donc la croissance de celles-ci, l'inflammation, la retinopathie diabetique, la polyarthrite rhumatoide et le psoriasis.

09/970088 05/05/2004

=> d his

(FILE 'HOME' ENTERED AT 18:18:15 ON 05 MAY 2004)

FILE 'MEDLINE, CAPLUS, SCISEARCH, BIOSIS, USPATFULL, PCTFULL' ENTERED AT
18:18:32 ON 05 MAY 2004

L1 51817 S VEGF
L2 1786 S (PRODUCTION OR PRODUCE OR FORM OR FORMATION OR GROWTH) (S) LYMP
L3 5 S LYMPHOSCINTIGRAPHY(S)ASSAY
L4 5 DUP REM L3 (0 DUPLICATES REMOVED)
L5 261 S RABBIT(S)EAR(S)ASSAY
L6 17689 S LYMPHEDEMA OR LYMPHANGIETASIA OR LYMPHANGIOMA OR LYMPHANGIOSA
L7 85 S L1(P)L2(P)L6
L8 9 S L1(S)L5
L9 7 DUP REM L8 (2 DUPLICATES REMOVED)
L10 7115 S (ADMINISTER? OR ADMINISTRAT? OR GIVE OR DOSE) (S)L1
L11 113 S L10(P)L2
L12 40 S L10(P)L2(P)L6
L13 2 S L12 AND (L5 OR L3)
L14 2 DUP REM L13 (0 DUPLICATES REMOVED)
L15 394 S L1(S)L2
L16 116 S L1(S)L6
L17 42 S L10 AND L16 AND L15
L18 41 DUP REM L17 (1 DUPLICATE REMOVED)
L19 1200 S VEGF(W)2